

INTERNATIONAL SEARCH REPORT

International application No.
PCT/KR2004/000075

A. CLASSIFICATION OF SUBJECT MATTER		
IPC7 C02F 1/467		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED		
Minimum documentation searched (classification system followed by classification symbols) IPC7 C02F 1/46*, C02F 1/78, C01B 13/11		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Korean Patent and applications for inventions since 1975 Utility Models and applications for Utility Models since 1975 Japanese Utility Models and applications for Utility Models since 1975		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) KIPASS		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	KR10-0199509B1(Youn, Young-Chan; Lee, Kang-Ju) 15 Jun. 1999 see the whole document	1-44
A	KR10-0292270B1(Kang, Nam-Soon) 01 Jun. 2001 see the whole document	1-14, 38-44
A	JP61-168135U(Kitamura; Kurogawa) 18 Oct. 1986 see the whole document	1-14, 38-44
A	JP54-41444U(Ikemoto) 19 Mar. 1979 see the whole document	1-14, 38-44
<input type="checkbox"/> Further documents are listed in the continuation of Box C.		<input checked="" type="checkbox"/> See patent family annex.
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed		
"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family-		
Date of the actual completion of the international search 28 APRIL 2004 (28.04.2004)		Date of mailing of the international search report 30 APRIL 2004 (30.04.2004)
Name and mailing address of the ISA/KR  Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea Facsimile No. 82-42-472-7140		Authorized officer KIM, Yong Il Telephone No. 82-42-481-5589

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Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
KR10-0199509B1	15 Jun. 1999	None	
KR10-0292270B1	01 Jun. 2001	None	
JP61-168135U	18 Oct. 1986	None	
JP54-41444U	19 Mar. 1979	None	